Abarna_day77

```
#include <stdio.h>
int main() {
  int T;
  scanf("%d", &T);
  while (T--) {
     int N;
     scanf("%d", &N);
     int A[N];
     for (int i = 0; i < N; i++) {
       scanf("%d", &A[i]);
     }
     int max1 = -100000, max2 = -100000, min1 = 100000, maxValue = -1000000;
     for (int i = 0; i < N; i++) {
       if (A[i] > max1) {
          max2 = max1;
          max1 = A[i];
       } else if (A[i] > max2) {
          max2 = A[i];
       }
       if (A[i] < min1) {
          min1 = A[i];
       }
     }
     for (int i = 0; i < N; i++) {
       if (A[i] != max1 && A[i] != max2) {
          int value1 = (max1 - min1) * A[i];
          int value2 = (max1 - A[i]) * max2;
          if (value1 > maxValue) {
             maxValue = value1;
          if (value2 > maxValue) {
             maxValue = value2;
       }
     }
     printf("%d\n", maxValue);
  }
  return 0;
}
```